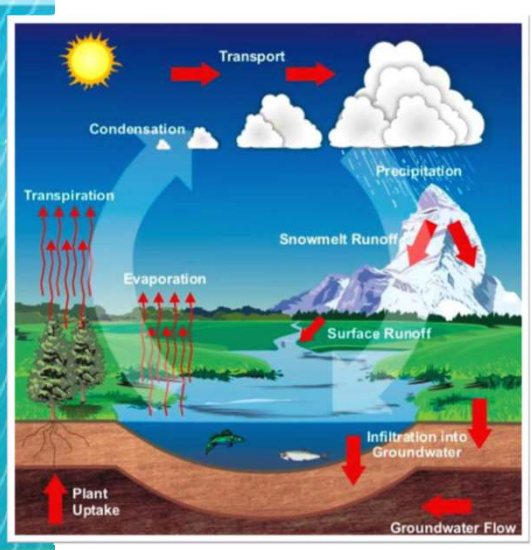
Your land. Your water. Your solution.

Lisa Loosigian
NH Department of Environmental Services

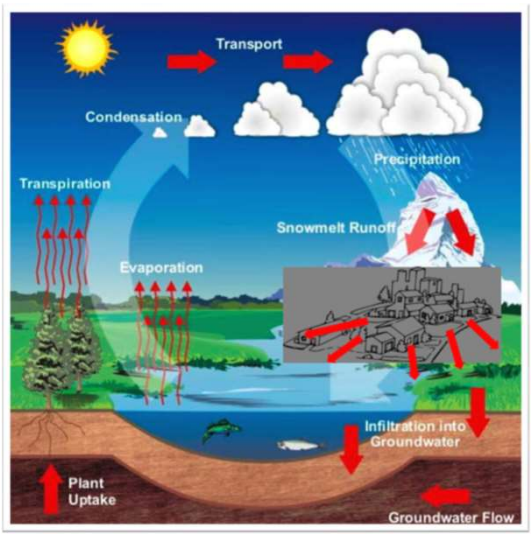
Sunrise Lake

June 5, 2021

Natural vs Interrupted Water Cycle



Pre-development



Post-development

EXCESS SURFACE RUNOFF

Soak up the rain NH

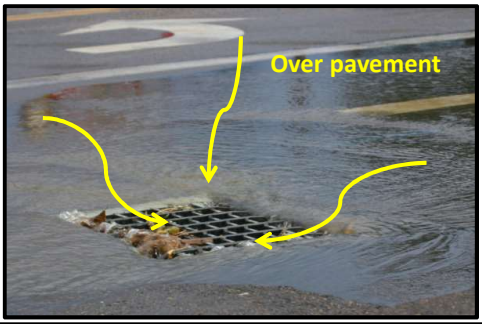
stormwater runoff

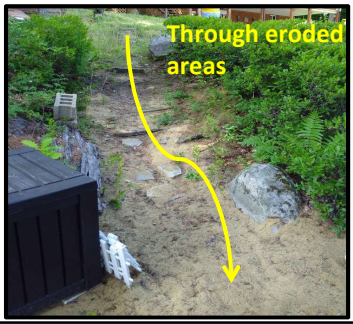
Water from rain or melting snow that doesn't soak into the ground.

stormwater runoff carries pollutants

Soak up the rain NH

Runoff Carries Pollutants

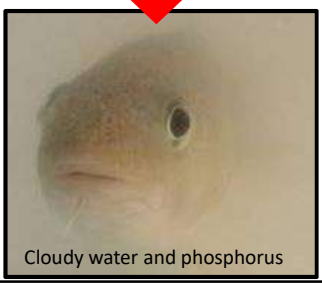




Sources of Residential Runoff

Pollutant Examples

Sediment



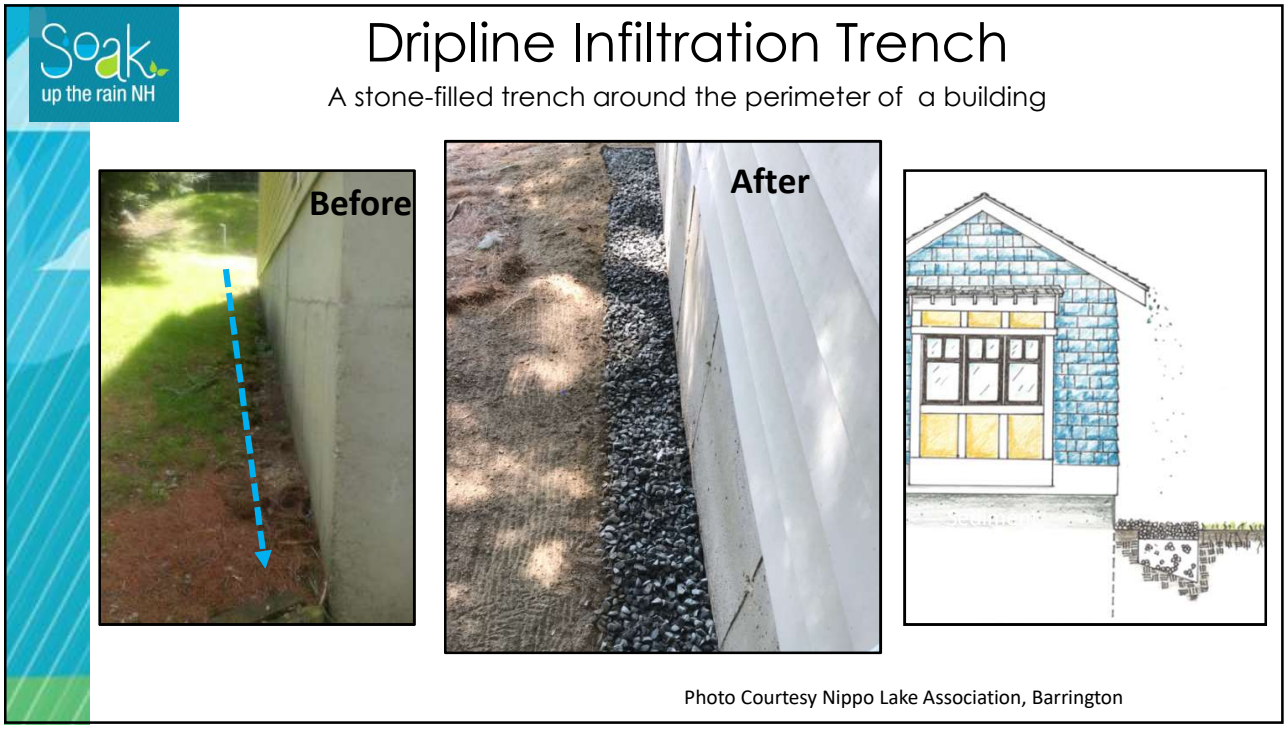
Cloudy water and phosphorus

Nutrients

Green lawns = green ponds

Bacteria


Soak up the rain NH
Rain Garden
Dripline Trench
Vegetated Swale
Driveway Trench
How can you
SOAK UP the RAIN?
Find Do-It-Yourself Instructions and more at
www.soaknh.org
Rain Barrel
Infiltration Steps
Vegetated Buffer
Porous Pavers
Water Bars
Dry Well


Soak up the rain NH
Dripline Infiltration Trench
A stone-filled trench around the perimeter of a building
Before
After
Photo Courtesy Nippo Lake Association, Barrington

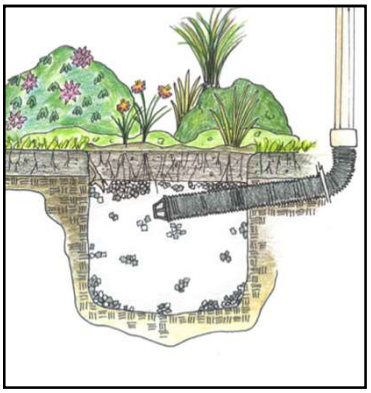
Driveway Infiltration Trench

A stone-filled trench along the edge of a driveway.

In this case, at Phillips Exeter Academy, water was flowing from road onto this property and eroding the side yard.

Dry Well

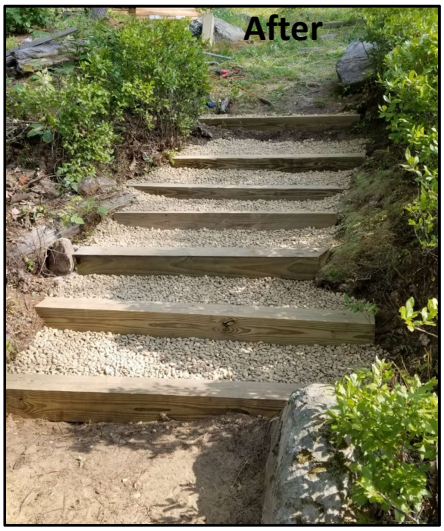
Classic hole in the ground filled with stone.

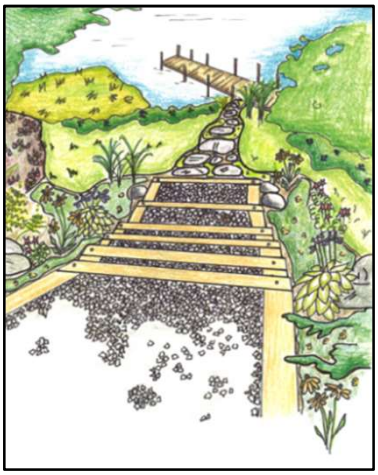


Project Partner: Great Bay Stewards, Greenland

Infiltration Steps

Stabilize sloped paths, reduces erosion.

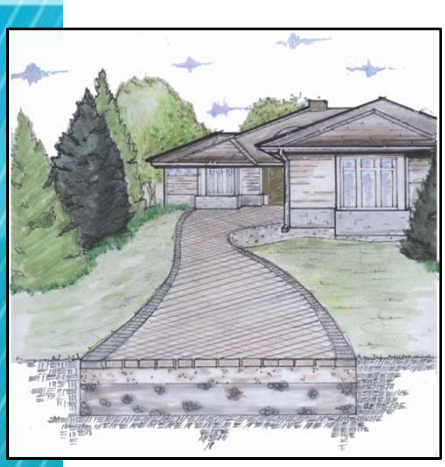




Project partner: Friends of Hothole Pond, Loudon

Porous Pavers

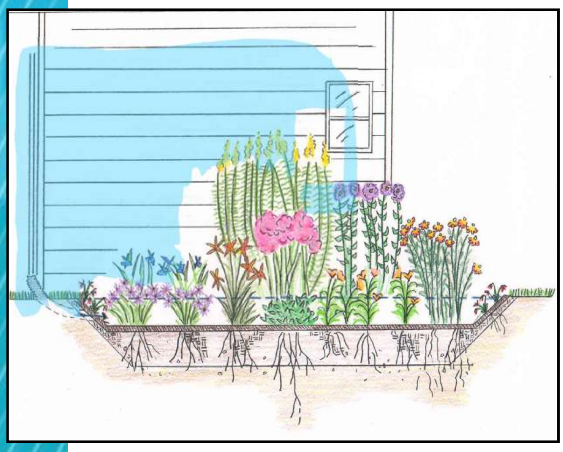
Stone reservoirs under pavers.



AKA geo grids or grass pavers, etc.

Rain Garden

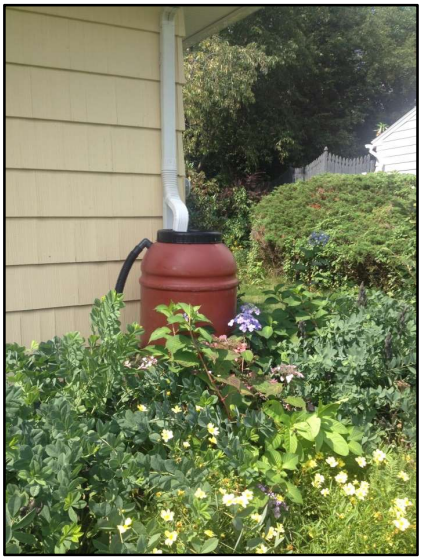
A sunken, flat-bottomed garden designed to capture rain water



Rain Garden

Rain Barrel

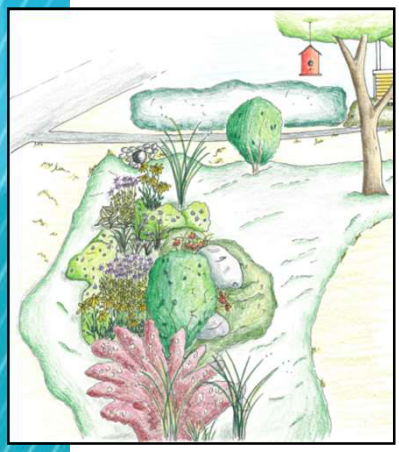
Captures and stores rainwater from a roof for later use.

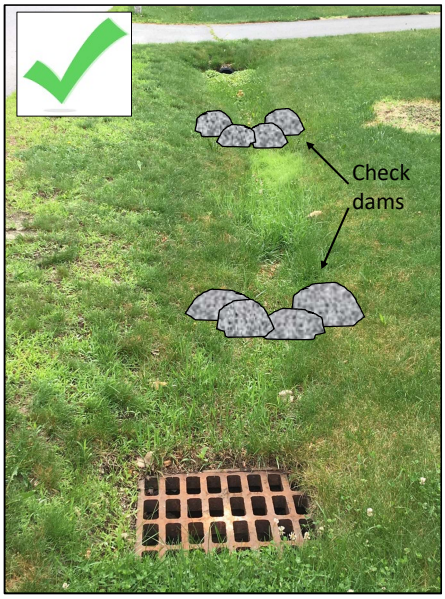


Project partner: Great Bay Stewards, Greenland

Vegetated Swale

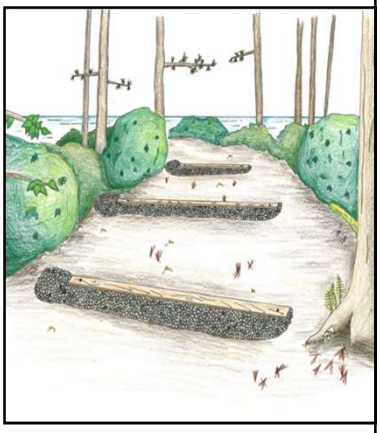
A shallow channel filled with plants to slow flow





Water Bar

Intercepts and diverts water traveling down paths.



Project partner: Green Mountain Conservation Group, Freedom

Water Bar - Rubber Razor

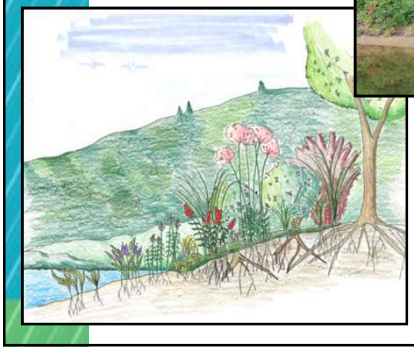
Conveyer belt material sandwiched between lumber and protruding above grade

Project partner: Nippo Lake Association, Barrington

Vegetated Buffer

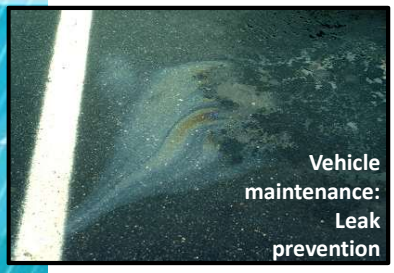
Vegetation between landscaped area and water

Natural Buffer
Pleasant Lake,
Deerfield



Planted Buffer
Wentworth Lake,
Wolfeboro

Good Housekeeping Tips



Vehicle maintenance: Leak prevention

Responsible lawn care

Winter: less salt/more sand??

Native gardens and natural areas preferred over lawns

Commercial Car Washes reclaim/treat wash water

www.soaknh.org

Step-by-step instructions

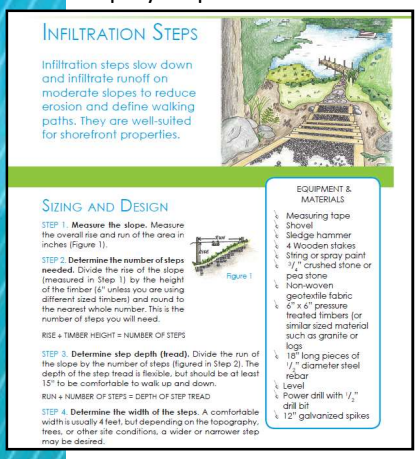
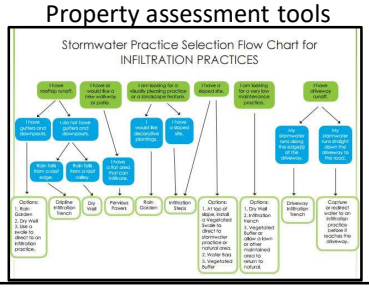
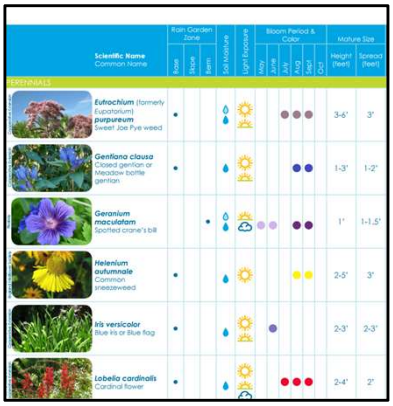


Photo galleries & stories

Property assessment tools



Rain garden planning



Quiz – Is This You?

Runoff to collection system?

Eroded path to the lake?

Sand/soil/sediment moving to lake?

No buffer?

If so…sign up for a site visit!
Or check us out at www.soaknh.org

Site Visit Sign-up Sheet

Name	Address	Email and phone number	Runoff or Erosion issue? Yes/No and Notes


Rain Garden. Partner: Great Bay Stewards


Infiltration Pad. Partner: Wentworth Watershed Assoc.

QUESTIONS?

www.soaknh.org

Facebook: SoakNH

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Dry Well. Partner: Great Bay Stewards


Infiltration Trench. Partner: Green Mtn Conservation Group